

Patent Assignment Abstract of Title

Total Assignments: 2

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|------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|------------------|
| Application #: <u>09995149</u> | Filing Dt: 11/27/2001 | Patent #: NONE | Issue Dt: |
| PCT #: NONE | | Publication #: NONE | Pub Dt: |
| Inventors: Jarrett E. Archer, Joseph A. Scivicque, Frederick A. Sherman, Heath W. Hendrickson | | | |
| Title: Communication systems and QSIG communications methods | | | |

Assignment: 1

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|-----------------------------------------|-----------------------------|-----------------------------|---------------------------|---------------|
| Reel/Frame: <u>012337 / 0566</u> | Received: 12/06/2001 | Recorded: 11/27/2001 | Mailed: 01/28/2002 | Pages: |
| | | | | 2 |

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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Assignment: 2

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|-----------------------------------------|-----------------------------|-----------------------------|---------------------------|---------------|
| Reel/Frame: <u>012644 / 0140</u> | Received: 03/11/2002 | Recorded: 02/27/2002 | Mailed: 05/01/2002 | Pages: |
| | | | | 4 |

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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Search Results as of: 12/26/2005 11:09:08 A.M.

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Web interface last modified: September 28, 2005

Refine Search

Search Results -

| Terms | Documents |
|-------------------------------------------|-----------|
| 6304576.pn. or 5953350.pn. or 5659542.pn. | 3 |

| | |
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| Database: | US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins |
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| Search: <input type="text" value="Search term"/> | <input type="button" value="Refine Search"/> |
| <input style="width: 150px; height: 30px; border: none; background-color: #f0f0f0; padding: 5px; margin-right: 20px;" type="button" value="Recall Text"/>  <input style="width: 150px; height: 30px; border: none; background-color: #f0f0f0; padding: 5px; margin-right: 20px;" type="button" value="Clear"/> <input style="width: 150px; height: 30px; border: none; background-color: #f0f0f0; padding: 5px;" type="button" value="Interrupt"/> | |

Search History

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| <u>Name</u> | <u>Count</u> | <u>Name</u> |
| side by side | | result set |
| <i>DB=PGPB, USPT; PLUR=YES; OP=ADJ</i> | | |
| <u>L69</u> 6304576.pn. or 5953350.pn. or 5659542.pn. | 3 | <u>L69</u> |
| <u>L68</u> (bearer near1 channel\$) and L61 | 6 | <u>L68</u> |
| <u>L67</u> L61 and PBX\$ | 31 | <u>L67</u> |
| <u>L66</u> L61 and L30 | 1 | <u>L66</u> |
| <u>L65</u> QSIG same L30 | 5 | <u>L65</u> |
| <u>L64</u> L30 and L62 | 11 | <u>L64</u> |
| <u>L63</u> QSIG and L62 | 0 | <u>L63</u> |
| ((data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay)) same ((access\$6 near1 device\$) or gateway\$ or router\$ or switch\$6 or bridge\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 215 | <u>L62</u> |
| <u>L61</u> ((data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay)) same ((access\$6 near1 device\$) or gateway\$) same | 67 | <u>L61</u> |

| | | |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| | ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | |
| <u>L60</u> | agent\$ and L56 | 1 <u>L60</u> |
| <u>L59</u> | L56 and ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 0 <u>L59</u> |
| <u>L58</u> | L56 and ((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) and (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$)) | 0 <u>L58</u> |
| <u>L57</u> | L56 and L30 | 0 <u>L57</u> |
| <u>L56</u> | QSIG same (bearer near1 channel\$6) | 2 <u>L56</u> |
| <u>L55</u> | ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) and L54 | 4 <u>L55</u> |
| <u>L54</u> | (bearer near1 channel\$6) and QSIG | 23 <u>L54</u> |
| <u>L53</u> | QSIG same tunnel\$6 | 4 <u>L53</u> |
| <u>L52</u> | (L23 same ((control\$6 near1 component\$) or (call\$6 near1 agent\$))) and QSIG | 2 <u>L52</u> |
| <u>L51</u> | L23 same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) same QSIG | 0 <u>L51</u> |
| <u>L50</u> | QSIG and L49 | 0 <u>L50</u> |
| <u>L49</u> | L23 same ((access\$6 near1 device\$) or gateway\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 67 <u>L49</u> |
| <u>L48</u> | (((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) or (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$))) and L44 | 11 <u>L48</u> |
| <u>L47</u> | ((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) and (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$)) and L44 | 0 <u>L47</u> |
| <u>L46</u> | (bearer\$ or L30) and L44 | 0 <u>L46</u> |
| <u>L45</u> | bearer\$ same L44 | 0 <u>L45</u> |
| <u>L44</u> | L23 same ((access\$6 near1 device\$) or gateway\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) same PBX\$ | 15 <u>L44</u> |
| <u>L43</u> | PBX\$ same L39 | 15 <u>L43</u> |
| <u>L42</u> | L39 and L36 | 0 <u>L42</u> |
| <u>L41</u> | L39 and L30 | 1 <u>L41</u> |
| <u>L40</u> | L39 and (L30 or L36) | 1 <u>L40</u> |
| <u>L39</u> | L34 same L23 same L13 | 65 <u>L39</u> |
| <u>L38</u> | L24 and (L30 or L36) | 6 <u>L38</u> |
| <u>L37</u> | L36 same L30 | 5 <u>L37</u> |
| <u>L36</u> | (Q near1 Interface near1 (Signaling or signal\$6) near1 Protocol) or QSIG | 184 <u>L36</u> |
| <u>L35</u> | L34 and (L32 or L31) | 4 <u>L35</u> |
| <u>L34</u> | (network\$6 near1 access\$6 near1 device\$) or gateway\$ | 50875 <u>L34</u> |
| <u>L33</u> | L14 and L32 | 2 <u>L33</u> |
| <u>L32</u> | QSIG same L30 | 5 <u>L32</u> |
| <u>L31</u> | QSIG and L30 | 22 <u>L31</u> |
| <u>L30</u> | ((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) same (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$)) | 2371 <u>L30</u> |
| <u>L29</u> | L19 same L28 | 42 <u>L29</u> |
| <u>L28</u> | QSIG | 184 <u>L28</u> |
| <u>L27</u> | QSIG\$ | 214 <u>L27</u> |

| | | | |
|------------|-----------------------------------------------------------------------------------------------------------------|---------|------------|
| <u>L26</u> | QSIG near1 access\$6 near1 protocol\$ | 0 | <u>L26</u> |
| <u>L25</u> | QSIG and L24 | 2 | <u>L25</u> |
| <u>L24</u> | L23 same L13 same L14 | 144 | <u>L24</u> |
| <u>L23</u> | (data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay) | 121394 | <u>L23</u> |
| <u>L22</u> | L20 and L21 | 7 | <u>L22</u> |
| <u>L21</u> | QSIG or (signal\$6 near1 protocol\$) | 11346 | <u>L21</u> |
| <u>L20</u> | L16 same L19 | 47 | <u>L20</u> |
| <u>L19</u> | (content or voice or (B near1 channel\$)) same (signal\$6 or (D near1 channel\$)) | 207438 | <u>L19</u> |
| <u>L18</u> | QSIG same tunnel\$6 same signal\$6 | 1 | <u>L18</u> |
| <u>L17</u> | QSIG and L16 | 2 | <u>L17</u> |
| <u>L16</u> | L13 same L14 same L15 | 196 | <u>L16</u> |
| <u>L15</u> | ((data or packet\$) near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay) | 129670 | <u>L15</u> |
| <u>L14</u> | (network\$6 near1 access\$6 or device\$) or gateway\$ | 2776835 | <u>L14</u> |
| <u>L13</u> | (control\$6 near1 component\$) or (call\$6 near1 agent\$) | 62611 | <u>L13</u> |
| <u>L12</u> | control\$6 same ((packet or data) near1 network\$6) same L2 | 2 | <u>L12</u> |
| <u>L11</u> | L10 same (ETSI/ITU or QSIG) | 9 | <u>L11</u> |
| <u>L10</u> | content\$ same (signaling or signal\$6) | 146084 | <u>L10</u> |
| <u>L9</u> | ETSI/ITU same L5 | 0 | <u>L9</u> |
| <u>L8</u> | QSIG and L5 | 0 | <u>L8</u> |
| <u>L7</u> | L2 and l5 | 0 | <u>L7</u> |
| <u>L6</u> | L2 same L5 | 0 | <u>L6</u> |
| <u>L5</u> | (content near1 (portion\$ or packet\$)) same ((signaling or signal\$6) near1 (portion\$ or packet\$)) | 128 | <u>L5</u> |
| <u>L4</u> | L2 same L3 | 12 | <u>L4</u> |
| <u>L3</u> | (content or (signaling or signal\$6)) near1 (portion\$ or packet\$) | 58505 | <u>L3</u> |
| <u>L2</u> | QSIG | 184 | <u>L2</u> |
| <u>L1</u> | QSIG near1 access near1 protocol | 0 | <u>L1</u> |

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Search Results -

| Terms | Documents |
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| (bearer near1 channel\$) and L70 | 6 |

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Search History

DATE: Monday, December 26, 2005 [Printable Copy](#) [Create Case](#)

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| | <u>Name</u> | <u>Query</u> | | |
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| | | <i>DB=PGPB, USPT; PLUR=YES; OP=ADJ</i> | | |
| <u>L74</u> | | (bearer near1 channel\$) and L70 | 6 | <u>L74</u> |
| <u>L73</u> | | ETSI/ITU and L70 | 0 | <u>L73</u> |
| <u>L72</u> | | L70 same PBX\$ | 15 | <u>L72</u> |
| <u>L71</u> | | L70 and (QSIG or (bearer near1 channel\$6)) ((data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) | 6 | <u>L71</u> |
| <u>L70</u> | | or (frame near1 relay)) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) same ((access\$6 near1 device\$) or gateway\$) | 67 | <u>L70</u> |
| <u>L69</u> | | 6304576.pn. or 5953350.pn. or 5659542.pn. | 3 | <u>L69</u> |
| <u>L68</u> | | (bearer near1 channel\$) and L61 | 6 | <u>L68</u> |
| <u>L67</u> | | L61 and PBX\$ | 31 | <u>L67</u> |
| <u>L66</u> | | L61 and L30 | 1 | <u>L66</u> |
| <u>L65</u> | | QSIG same L30 | 5 | <u>L65</u> |
| <u>L64</u> | | L30 and L62 | 11 | <u>L64</u> |

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|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| <u>L63</u> | QSIG and L62 ((data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay)) same ((access\$6 near1 device\$) or gateway\$ or router\$ or switch\$6 or bridge\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 0 | <u>L63</u> |
| <u>L62</u> | ((data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay)) same ((access\$6 near1 device\$) or gateway\$ or router\$ or switch\$6 or bridge\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 215 | <u>L62</u> |
| <u>L61</u> | ((data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay)) same ((access\$6 near1 device\$) or gateway\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 67 | <u>L61</u> |
| <u>L60</u> | agent\$ and L56 | 1 | <u>L60</u> |
| <u>L59</u> | L56 and ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 0 | <u>L59</u> |
| <u>L58</u> | L56 and ((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) and (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$)) | 0 | <u>L58</u> |
| <u>L57</u> | L56 and L30 | 0 | <u>L57</u> |
| <u>L56</u> | QSIG same (bearer near1 channel\$6) | 2 | <u>L56</u> |
| <u>L55</u> | ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) and L54 | 4 | <u>L55</u> |
| <u>L54</u> | (bearer near1 channel\$6) and QSIG | 23 | <u>L54</u> |
| <u>L53</u> | QSIG same tunnel\$6 | 4 | <u>L53</u> |
| <u>L52</u> | (L23 same ((control\$6 near1 component\$) or (call\$6 near1 agent\$))) and QSIG | 2 | <u>L52</u> |
| <u>L51</u> | L23 same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) same QSIG | 0 | <u>L51</u> |
| <u>L50</u> | QSIG and L49 | 0 | <u>L50</u> |
| <u>L49</u> | L23 same ((access\$6 near1 device\$) or gateway\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) | 67 | <u>L49</u> |
| <u>L48</u> | (((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) or (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$))) and L44 | 11 | <u>L48</u> |
| <u>L47</u> | ((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) and (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$)) and L44 | 0 | <u>L47</u> |
| <u>L46</u> | (bearer\$ or L30) and L44 | 0 | <u>L46</u> |
| <u>L45</u> | bearer\$ same L44 | 0 | <u>L45</u> |
| <u>L44</u> | L23 same ((access\$6 near1 device\$) or gateway\$) same ((control\$6 near1 component\$) or (call\$6 near1 agent\$)) same PBX\$ | 15 | <u>L44</u> |
| <u>L43</u> | PBX\$ same L39 | 15 | <u>L43</u> |
| <u>L42</u> | L39 and L36 | 0 | <u>L42</u> |
| <u>L41</u> | L39 and L30 | 1 | <u>L41</u> |
| <u>L40</u> | L39 and (L30 or L36) | 1 | <u>L40</u> |
| <u>L39</u> | L34 same L23 same L13 | 65 | <u>L39</u> |
| <u>L38</u> | L24 and (L30 or L36) | 6 | <u>L38</u> |
| <u>L37</u> | L36 same L30 | 5 | <u>L37</u> |
| <u>L36</u> | (Q near1 Interface near1 (Signaling or signal\$6) near1 Protocol) or QSIG | 184 | <u>L36</u> |
| <u>L35</u> | L34 and (L32 or L31) | 4 | <u>L35</u> |
| <u>L34</u> | (network\$6 near1 access\$6 near1 device\$) or gateway\$ | 50875 | <u>L34</u> |
| <u>L33</u> | L14 and L32 | 2 | <u>L33</u> |
| <u>L32</u> | QSIG same L30 | 5 | <u>L32</u> |

| | | | |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|
| <u>L31</u> | QSIG and L30 | 22 | <u>L31</u> |
| <u>L30</u> | ((content near1 (portion\$ or packet\$)) or (B near1 channel\$)) same (((signaling or signal\$6) near1 (portion\$ or packet\$)) or (D near1 channel\$)) | 2371 | <u>L30</u> |
| <u>L29</u> | L19 same L28 | 42 | <u>L29</u> |
| <u>L28</u> | QSIG | 184 | <u>L28</u> |
| <u>L27</u> | QSIG\$ | 214 | <u>L27</u> |
| <u>L26</u> | QSIG near1 access\$6 near1 protocol\$ | 0 | <u>L26</u> |
| <u>L25</u> | QSIG and L24 | 2 | <u>L25</u> |
| <u>L24</u> | L23 same L13 same L14 (data near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay) | 144 | <u>L24</u> |
| <u>L23</u> | | 121394 | <u>L23</u> |
| <u>L22</u> | L20 and L21 | 7 | <u>L22</u> |
| <u>L21</u> | QSIG or (signal\$6 near1 protocol\$) | 11346 | <u>L21</u> |
| <u>L20</u> | L16 same L19 | 47 | <u>L20</u> |
| <u>L19</u> | (content or voice or (B near1 channel\$)) same (signal\$6 or (D near1 channel\$)) | 207438 | <u>L19</u> |
| <u>L18</u> | QSIG same tunnel\$6 same signal\$6 | 1 | <u>L18</u> |
| <u>L17</u> | QSIG and L16 | 2 | <u>L17</u> |
| <u>L16</u> | L13 same L14 same L15 | 196 | <u>L16</u> |
| <u>L15</u> | ((data or packet\$) near1 network\$6) or ATM or (asynchronous near1 transfer near1 mode) or (frame near1 relay) | 129670 | <u>L15</u> |
| <u>L14</u> | (network\$6 near1 access\$6 or device\$) or gateway\$ | 2776835 | <u>L14</u> |
| <u>L13</u> | (control\$6 near1 component\$) or (call\$6 near1 agent\$) | 62611 | <u>L13</u> |
| <u>L12</u> | control\$6 same ((packet or data) near1 network\$6) same L2 | 2 | <u>L12</u> |
| <u>L11</u> | L10 same (ETSI/ITU or QSIG) | 9 | <u>L11</u> |
| <u>L10</u> | content\$ same (signaling or signal\$6) | 146084 | <u>L10</u> |
| <u>L9</u> | ETSI/ITU same L5 | 0 | <u>L9</u> |
| <u>L8</u> | QSIG and L5 | 0 | <u>L8</u> |
| <u>L7</u> | L2 and l5 | 0 | <u>L7</u> |
| <u>L6</u> | L2 same L5 | 0 | <u>L6</u> |
| <u>L5</u> | (content near1 (portion\$ or packet\$)) same ((signaling or signal\$6) near1 (portion\$ or packet\$)) | 128 | <u>L5</u> |
| <u>L4</u> | L2 same L3 | 12 | <u>L4</u> |
| <u>L3</u> | (content or (signaling or signal\$6)) near1 (portion\$ or packet\$) | 58505 | <u>L3</u> |
| <u>L2</u> | QSIG | 184 | <u>L2</u> |
| <u>L1</u> | QSIG near1 access near1 protocol | 0 | <u>L1</u> |

END OF SEARCH HISTORY